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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/778,013	02/11/2004	John A. Nguyen	13854-062001	3337
26181	7590	05/19/2005	EXAMINER	
FISH & RICHARDSON P.C. PO BOX 1022 MINNEAPOLIS, MN 55440-1022			LEE, BENNY T	
			ART UNIT	PAPER NUMBER
			2817	

DATE MAILED: 05/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.



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SERIAL NUMBER	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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EXAMINER
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ART UNIT	PAPER NUMBER
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DATE MAILED:

This is a communication from the examiner in charge of your application.  
COMMISSIONER OF PATENTS AND TRADEMARKS

☒ This application has been examined ☐ Responsive to communication filed on \_\_\_\_\_ ☐ This action is made final.

A shortened statutory period for response to this action is set to expire \_\_\_\_\_ month(s), \_\_\_\_\_ days from the date of this letter.  
Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133

**Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:**

- |                                                                                         |                                                                                 |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| 1. <input checked="" type="checkbox"/> Notice of References Cited by Examiner, PTO-892. | 2. <input type="checkbox"/> Notice re Patent Drawing, PTO-948.                  |
| 3. <input type="checkbox"/> Notice of Art Cited by Applicant, PTO-1449.                 | 4. <input type="checkbox"/> Notice of Informal Patent Application, Form PTO-152 |
| 5. <input type="checkbox"/> Information on How to Effect Drawing Changes, PTO-1474.     | 6. <input type="checkbox"/> _____                                               |

**Part II SUMMARY OF ACTION**

1. ☒ Claims 1-11 are pending in the application.  
Of the above, claims \_\_\_\_\_ are withdrawn from consideration.
2. ☐ Claims \_\_\_\_\_ have been cancelled.
3. ☒ Claim 11 ~~is~~ allowed.
4. ☒ Claims 1-4, 9, 10 are rejected.
5. ☒ Claims 5-8 are objected to.
6. ☐ Claims \_\_\_\_\_ are subject to restriction or election requirement.
7. ☐ This application has been filed with informal drawings under 37 C.F.R. 1.85 which are acceptable for examination purposes.
8. ☐ Formal drawings are required in response to this Office action.
9. ☐ The corrected or substitute drawings have been received on \_\_\_\_\_. Under 37 C.F.R. 1.84 these drawings are ☐ acceptable; ☐ not acceptable (see explanation or Notice re Patent Drawing, PTO-948).
10. ☐ The proposed additional or substitute sheet(s) of drawings, filed on \_\_\_\_\_, has (have) been ☐ approved by the examiner; ☐ disapproved by the examiner (see explanation).
11. ☐ The proposed drawing correction, filed \_\_\_\_\_, has been ☐ approved; ☐ disapproved (see explanation).
12. ☐ Acknowledgement is made of the claim for priority under U.S.C. 119. The certified copy has ☐ been received ☐ not been received  
☐ been filed in parent application, serial no. \_\_\_\_\_; filed on \_\_\_\_\_.
13. ☐ Since this application appears to be in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.
14. ☐ Other

SN 778013

EXAMINER'S ACTION

The disclosure is objected to because of the following informalities: Page 2, line 8 and page 3, line 25, note that "millimeterwave" and "pulsedistortion" should be respectively separated. Page 2, line 23, note that "catagorised" should be correctly spelled as --categorized --. Page 4, line 9, note that --OF THE INVENTION-- should follow "SUMMARY" for a proper characterization. Page 5, line 15, note that --BRIEF-- should precede "DESCRIPTION" and --THE-- should follow "OF" for a proper characterization. Page 6, line 7, note that --OF THE INVENTION-- should follow "DESCRIPTION " for a proper characterization; lines 12, 13, note that "...that is operation acts...." is vague in meaning and should be rephrased. Page 7, lines 2, 5, note that "53a, b" should be rewritten as --53a, 53b--. Page 8, line 15, note that "Figures described below" needs clarification (i.e. which figures?). Page 10, line 5, note that "feater" should be correctly spelled as --feature--. Page 11, line 10, note that "spacing S1 and S2" should reference --Fig. 2-- for consistency of description.

Appropriate correction is required.

The disclosure is objected to because of the following informalities: Note that the following reference labels need description with respect to the following drawing figure's description: figs. 3-6, "20", figs. 4, 5, 6, "25"; fig. 5 (52, 70); fig. 7, various descriptive wording; fig. 9, "900". Appropriate correction is required.

The use of the trademark Duroid (page 1, line 10) has been noted in this application. It should be capitalized wherever it appears and be accompanied by the generic terminology.

Although the use of trademarks is permissible in patent applications, the proprietary nature of the marks should be respected and every effort made to prevent their use in any manner which might adversely affect their validity as trademarks.

The drawings are objected to because in Fig. 7, reference labels (56, 310) need to be provided as to be commensurate with the fig. 7 description. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

Art Unit: 2817

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

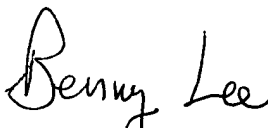
Claims 1-4, 9, 10 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Shiau et al.

Shiau et al discloses a transmission medium comprising: a transmission medium comprising: a substrate (42) having a transmission line (e.g. 64) and conductive bands (66, 68) disposed on the top surface of substrate (42) to define a coplanar ground-signal-ground signal line arrangement. Note that the conductive bands (66, 68) extend to lateral side faces of the substrate. As evident from fig. 3, the substrate (42) has the lateral sides faces thereof sitting on shoulders (50a, 50b) of a conductive base (46) having an air channel or cavity (48) disposed underneath and extending the length of the substrate. Note that a conductive cover (44) engages the base (46) as well as the lateral side faces of the substrate such as to place the conductive bands (66, 68) at ground plane potential (e.g. see col. 3, ls 20-25). Note that in addition to transmission line (64), additional monolithic microwave integrated circuit components (e.g. 70, 72, 74) are coplanar with the top surface of the substrate.

Any inquiry concerning this communication should be directed to Benny Lee at telephone number (571) 272-1764.

B. Lee/ds

05/09/05

  
BENNY T. LEE  
PRIMARY EXAMINER  
ART UNIT 2817